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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 939 060 03/26/2004 Shinji Hiraiwa 8883 10/811,486 **EXAMINER** 25191 01/11/2006 **BURR & BROWN** KILKENNY, PATRICK L PO BOX 7068 PAPER NUMBER ART UNIT SYRACUSE, NY 13261-7068 3732

DATE MAILED: 01/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Action Summary	10/811,486	HIRAIWA, SHINJI	
	Examiner	Art Unit	
	Patrick J. Kilkenny	3732	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status			
1) Responsive to communication(s) filed on 26 March 2004.			
2a) This action is <b>FINAL</b> . 2b) This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4) ☐ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-10 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.			
Application Papers			
9) ☐ The specification is objected to by the Examiner.  10) ☑ The drawing(s) filed on 26 March 2004 is/are: a) ☐ accepted or b) ☑ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)	
6. Patent and Trademark Office			

#### **DETAILED ACTION**

## **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### Information Disclosure Statement

The information disclosure statement (IDS) submitted on 5/3/2004 is noted. The submission is in compliance with the provisions of 37 CFR 1.97 and 1.98. Accordingly, the information disclosure statement is being considered by the examiner.

## **Drawings**

The drawings are objected to because Figure 6A does not include reference number 14 referred to on page 13 of the specification.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for

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consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Brooks (2,054,781). Brooks discloses an artificial maxillary molar unit where the occlusal surface has a ridge with a sharp edge aligning along a line corresponding to a ridge of a cusp on a natural molar. The ridge has opposite sides that are each concave and the inclination is gradually more gentle from the occlusal surface towards the root (Figs. 4-5, #'s 30 and 58). The cheek and tongue side surface of the molar unit are chamfered (Fig. 6, # 56) and there are a plurality of molar units that are connectably formed within a common plate (Fig. 1, #12).

#### Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brooks in view of Zuccoli (2,669,779). Brooks discloses the claimed invention with the exception of the molar having a hollow form on the opposite side of the occlusal surface. Zuccoli discloses a dental molar unit with a hollow impression the side opposite the occlusal surface (Fig. 1, #7). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the molar unit of Brooks with a hollow surface, as taught by Zuccoli, so that the molar unit could be removed from the mouth independently of the artificial molar plate.

Claims 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brooks in view of Callne (5,221,203). Brooks discloses the claimed invention with the exception of an alignment instrument where an impression of the maxillary and mandibular occlusal surfaces of the artificial molar units are provided on opposite surfaces of the alignment instrument. Callne discloses a dental alignment instrument where the maxillary and mandibular molar unit impression casts are positioned on opposite surfaces of the alignment instrument. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made, to provide an alignment instrument for making the artificial molar units of Brooks, as taught by Callne, so that the occlusal surfaces of the maxillary and mandibular molar units can be

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precisely aligned. Furthermore, it is well known in the art of artificial molar unit processing to utilize an alignment instrument correctly positioning maxillary and mandibular artificial units.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached PTO-892 for prior art of reference. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J. Kilkenny whose telephone number is (571) 272-8684. The examiner can normally be reached on Mon-Fri, 8-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin P. Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Patrick J. Kilkenny January 6, 2006 Art Unit 3732